

The Way Home

by Arya Akhavan (February 2013)

Angles for R.I. = 1.550

46 + 15 girdles = 61 facets

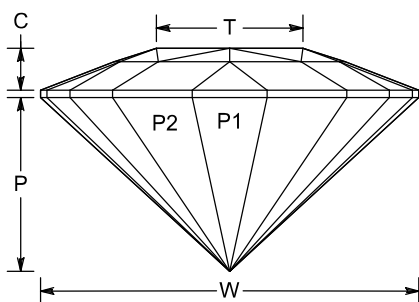
5-fold, mirror-image symmetry

80 index

L/W = 1.002 T/W = 0.387 U/W = 0.368

P/W = 0.458 C/W = 0.111

Vol./W³ = 0.176



PAVILION

P1	43.91°	80-16-32-48-64	Cut to centerpoint.
P2	43.32°	03-13-19-29-35- 45-51-61-67-77	Meet at culet.
G1	90.00°	80-16-32-48-64	Set stone size.
G2	90.00°	03-13-19-29-35- 45-51-61-67-77	Level girdle.

CROWN

C1	23.66°	80-16-32-48-64	Set girdle width.
C2	21.59°	03-13-19-29-35- 45-51-61-67-77	Level girdle.
C3	19.88°	03-13-19-29-35- 45-51-61-67-77	Meet C1, C2
C4	12.86°	08-24-40-56-72	Meet C2, C3
T	0.00°	Table	Meet C3, C4

I've been trying to write pentagons for my Tessellation suite. There's no such thing as a tessellation of pentagons in Euclidian space, but with two types of rhombi you can get pretty close (this one doesn't count). Works in materials from petalite to rutile (RI = 1.50 - 2.62) with no changes, but I prefer it in labradorite. Suggested size = 5-8 mm

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